

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 12, 2013

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-9500639, issued to GASTAR EXPLORATION USA, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Chief

James Martin

Operator's Well No: P.M. FURBEE NO. 6

Farm Name: MASON, KENNETH & JENNIFER

**API Well Number: 47-9500639** 

Permit Type: Plugging
Date Issued: 12/12/2013

Promoting a healthy environment.

95006398

## **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### **CONDITIONS**

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

1) Date: October 1, 2013

2) Operator's Well Number

P.M Furbee No.6

3) API Well No:

47 - 095 - County

0639 Permit

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE		X Gas	X	Liquid Injec Undergroun			ste Dispo Deep		allow	X	
5) LOCATION:	Elevation:	852'		Watershed:		y Creek		W. T. S.			_
s) Eccimon.	District:	McElroy	05	County:	Tyler		Qu	adrangle	Shirley	y 7.5'	607
6) WELL OPER Addre	ss 229 W.	Exploration, Ltd. Main St., Suite 3 ourg, WV 26301	301	494487685	7) DESIG	NATED A	GENT_dress		CCown Main St. urg, WV	-	
8) OIL & GAS I Name Address	NSPECTOR TO Joe Taylor 497 Claylick Ripley, WV	Road			9) PLUGO Name Addres	GING CON	TRACTO	OR			
10) WORK ORD	ER: The work of	order for the mann TD-1,947'		ngging this well	is as follow	vs:					
Not Available  LINERS		Gel Plug No. 1 Freepoint, Cu Plug No. 2 Plug No. 3 Freepoint, Cu Plug No. 4	184 t & Pul 90 60 t & Pul	00 - 800 00 - 500	ing (If Pres		0' (Est.)				
CLASS A	CEMRUT	Free point, cut of any cas Fill Well Bore Erect Monum MUST B WITH NO	and pull ing left i with 6% ent with	n well. Gel Between a h API No. MINI MUR AR THAN	ill Cement I	Place 100 Plugs	Re	cell	2013	as Protect	sion
Inspector 24 hou Work order ap	rs before permi		ommen	ce.	>		W	Office of Error Dept. of Error Date _/	Wironii		

### WELL RECORD

95006398

**Operator:** Gastar Exploration, Ltd.

229 West Main Street
Clarksburg, WV 26301
(304) 622-4796

Well: P.M. Furbee No.6

**API** 47-095- 0639

**Latitude:** 39°25'43.3"

UTM Coordinates (NAD 1983)

**Longitude:** 80°48'58.4"

Northing: 4,364,377

Elevation: 852

**Easting:** 515,833

**TD:** 1,947

Casing Record

Producing Formation: Big Injun

jun Not Available

**Spud Date:** 1/2/1897

Completion Date: 2/4/1897

Well Log

Not Available

Received

Office of Oil and Gas
WW Dept. of Environmental Protection

DAVID W. PERKINSON
377 Eastview Drive
Parkersburg, WV 26104
My commission expires June 11, 2020

WW-4A Revised 6-07 Surface Owner Copy CK 35527

Date: October 1, 2013						
Operator's Well	Number					
	P.M Fu	rbee	No.6			
API Well No:	47	-	095	_	0639	
	State		County		Permit	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Owr (a) Name Address	ner(s) to be served:  Kenneth & Jennifer Mas P.O. Box 99	5) (a) Coal Operator: Name NA Address
	(b) Name Address	Alma, WV 26320	(b) Coal Owner(s) with Declaration Name NA Address
	(c) Name Address		Name Address
6)	Inspector Address	Joe Taylor 497 Claylick Road Ripley, WV 25271	NA (c) Coal Lessee with Declaration Name Address
	Telephone	304-380-7469	ringer as less l'espagnement a list d'about une font somma l'année.
	in the in  Take no	in the work, and describe 2) The plat (surveyor's map on you have received these docu tructions on the reverse side. How tice that under Chapter 22-6 of the	and Abandon a Well on Form WW-4B, which sets out the parties involved as the well and its location and the plugging work order; and showing the well location on Form WW-6  ments is that you have rights regarding the application which are summarized vever, you are not required to take any action at all.  West Virginia Code, the undersigned well operator proposes to file or has empanying documents for a permit to plug and abandon a well with the Chief in Department of Environmental Protection, with respect to the well at the action and depicted on the attached Form WW-6. Copies of this Notice, the d by registered or certified mail or delivered by hand to the person(a) particular stances) on or before the day of mailing or delivery to the Chief.
			Well Operator  By:  Its:  Address  Gastar Exploration, Ltd.  Gastar Exploration, Ltd.  Mike Motion with commental protection  Mike Motion with commental protection  COO & Designated Agent, pept. of  Clarksburg, WV 26301
S	Subscribed ar	nd sworn before me this	Telephone (304) 622-4796  Lith day of October 2013  Notary Public
		My Commision Expires	Jane 11, 2020  OFFICIAL SEAL  Notary Public. State of West Virginia

#### SURFACE OWNER WAIVER

Operator's Well Number P.M Furbee No.6 47- 095- 0639

### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to th	e planned work described in these m	aterials, and I have no
objection to a permit being issued on those materials.		
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION	BY A CORPORATION,
ETC.		
1 11 11		
X / Date X/	7//3 Name	
Signature	By	and Victor and State of
William -	Its	Date
120000		
Patric Disposit and world and the sound 1.3	Signature	Date

Form WW-9

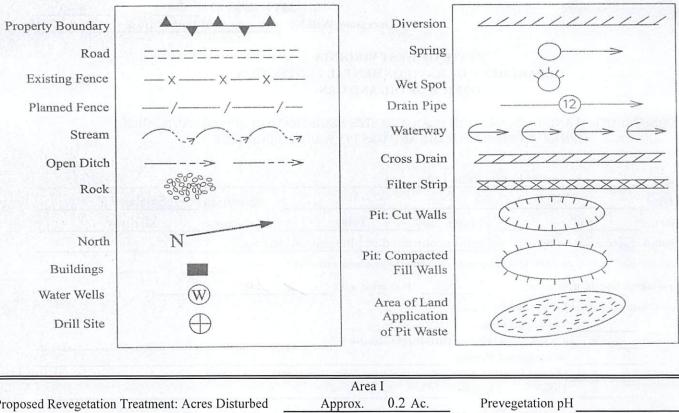
Pag	e 3	of	3
API Number 47	- 095	· -	0639
Operator's Well No. P.:	M Furbee	No.6	

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

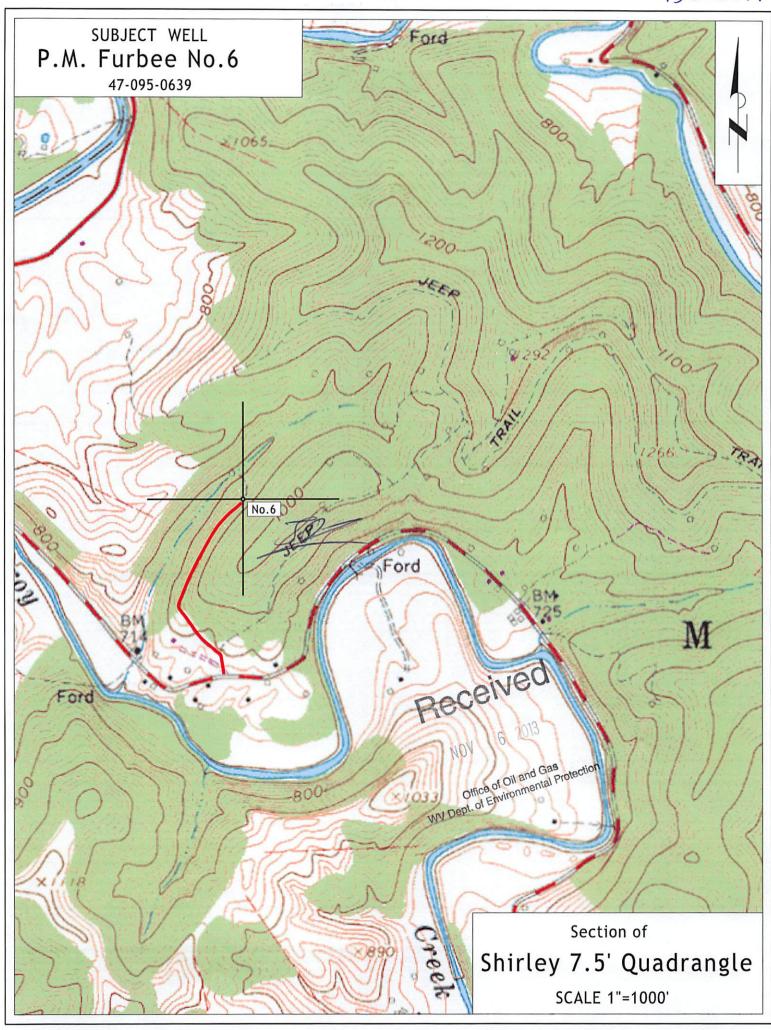
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Exp	oloration, Ltd.			o	P Code _	4944876	585
Watershed	McElroy C	reek			Quadrangle_	Shi	rley 7.5'	
Elevation	852'	County	Tyler		District_	M	cElroy	
Description of a	anticipated Pit Waste:	Fluids encou	ntered in pluggi	ng subje	ect well			
Do you anticipa	nte more than 5,000 bbls o	of water to comp	lete the proposed wel	l work?	Yes	No_	X	
Will a synthetic	e liner be used in pit?	Yes	If so, what mil.?	10	20			
Proposed Dispo	sal Method For Treated I	it Wastes:						
_	X Land Applica							
	<del></del>	Injection (UIC	Permit Number					<u> </u>
	Reuse (at AP		m WW-9 for disposal	location				
		osar (Supply Por (Explain	m vi ii-a iot maposai	wanti)				
Drilling medius	m anticipated for this wel		er, oil based, etc. N	 A				
•	foilbased, what type? Sy	,	· -					
Additives to be	used?							
_	isposal method? Leave in				NA			<del> </del>
	f left in pit and plan to so		ium will be used? Co	ment, lin	ne, sawdust	N	A	
- 1	Landfill or offsite name/po	rimit number:						<del></del>
applicable law of this application for obtaining the penalties for su  Company Office Company Of	ions of the permit are enfo or regulation can lead to descrify under penalty of la form and all attachment the information, I believe the abmitting false information icial Signature icial (Typed Name)	enforcement acti w that I have pe s thereto and th nat the informat	on. rsonally examined areas, based on my inquision is true, accurate a possibility of fine or information.  Mike McCown	nd am fan ry of thos and compl imprisonn	niliar with the inf se individuals imi lete. I am aware t nent.	ormation nediately that their	submitted on responsible	10
Company Offi	icial Title		COO & Designa	ted Age	ent		Ollice C	WITOFILL
						,	MA Debr.	
Subscribed ar	ad sworn defore me this	1-1-1/2, M	day of Oc	tob	/	/3 Jotary Po		
My commissio	on expires	ne 11	2020		•			
Form WW-9		/				OFF	ICIAL SEAL	
						DAVID W	, State of West Virg /. PERKINSC Eastview Drive	N (

### Legend



posed Revegetation							
1 0	n Treatment	: Acres Disturbe	ed	Approx.	0.2 Ac.	Prevegetation pH	
				Area	II		
			<u> </u>	Approx.	0.1 Ac.		
	Lime	2	Tons	Acre or Co	rrect to pH	6.5	
		10-20-20 or Equ		500	Lbs./Act	re (500 lbs. Minimum)	
		Straw		Tons/Acı			
			S	SEED MIX	TURES		
	Area I (	Location)				Area II (Roae	d)
Seed Type			s/Ac.		Seed T	ype	Lbs/Ac.
Tall Fescue	Description by Lance	. 4	10		Tall Fes	cue	40
Ladino Clover		Skin menone and	5	on structule	Ladino (	Clover	5
						:10	at the same and same
	AND THE REAL PROPERTY.					Ola	
						AN V	
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ach:		Jakan and American	2.33.22		e asset	Dec o	Gas volection
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Plan Approved by	of involved 7			application	COLING A COL	My De.	
wing(s) of road, lo otocopied section o	of involved 7			application		Date: 10-28	



## West Virginia Department of Environmental Protection Office of Oil & Gas

## WELL LOCATION FORM: GPS

API: 47	- 095 - 0639	WELL NO: No.6
FARM NAME:	P.M Furbee	
RESPONSIBLE PARTY	NAME: Gastar	Exploration, Ltd.
COUNTY:	Tyler	DISTRICT: McElroy
QUADRANGLE:	Shirley 7.5'	
SURFACE OWNER:	Kenneth & Jenni	er Mason
ROYALTY OWNER:	Kenneth & Jenni	er Mason
UTM GPS NORTHING:	4,364,377	(NAD 83)
UTM GPS EASTING:	515,833	(NAD 83) GPS ELEVATION: 260 m. (852
<ul><li>2. Accuracy t</li><li>3. Data Colle</li></ul>	ve mean sea level (MSL) - 1 to Datum - 3.05 meters ection Method:	
Survey Grade C	GPSPost Processed D Real-Time Differ	ential Received
	e GPS X Post Processed D Real-Time Differ	ential NOV 6
I the undersigned, hereby belief and shows all the in prescribed by the Office of	certify this data is correct to a formation required by law a f Oil and Gas.	o the best of my knowledge and Office of Oil and Gas and the regulations issued and the regulations is the regulation of Environmental Protection and the regulations is the regulation of the r
Much he Com	Mike McCown	COO & Designated Agent
Signature		Title
October 1, 2013 Date		